

Environmental Services Division



Building 535A
P.O. Box 5000
Upton, NY 11973-5000
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managed by Brookhaven Science Associates
for the U.S. Department of Energy
www.bnl.gov

January 21, 2000

Mr. George J. Malosh
Brookhaven Group Manager
U. S. Department of Energy
Brookhaven Group
Upton, NY 11973

Dear Mr. Malosh:

SUBJECT: NPDES - DISCHARGE MONITORING REPORT (DMR)
REFERENCE: Letter from Scott Mallette to K. Brog dated December 23, 1999

Included as Attachment I, please find the DMR for the month of December 1999. Chemical analyses for the reported parameters are conducted by a NYS Department of Health certified contractor laboratory. Copies of the analytical reports are contained in Attachments II, III and IV. Field measured parameters (pH, settleable solids, flow) are recorded and/or measured by either the Plant Engineering Division, Sewage Treatment Plant (STP) Operators or Environmental Services Division, Field Sampling Team.

Review of the analytical data shows that all parameters met their respective SPDES effluent limitations this reporting period. Please note that for the majority of the Outfalls, flow measurements are conducted either weekly or monthly; consequently, a daily maximum flow rate cannot be reported. All flow values reported for Outfalls 001A, 001B, 001D, 001E, 002, 003, 004, 005, 006A, and 006B are, therefore, daily averages.

Collection and analysis of these samples are performed in accordance with the guidelines of the BNL Quality Assurance (QA) program. These guidelines include the routine calibration of instruments, standard operating procedures for collection and analysis of samples, use of standard methods of analysis, and validation of the contractor analytical data by the BNL analytical services laboratory. All samples are collected by BNL personnel. A QA inspection is performed periodically on contractor laboratories. The QA documentation is available from the Environmental Services Division (ESD) and Plant Engineering (PE) Divisions. Based on this information, we believe the values reported on the DMR are representative of the effluent from the BNL during the month of December 1999.

January 21, 2000

Please sign each page of the DMR where indicated and transmit the DMR and associated attachments to the New York State Department of Environmental Conservation and the Suffolk County Department of Health Services no later than January 28, 2000.

If there are any questions regarding the information contained on the DMRs or the analytical data packages, please do not hesitate to contact R. Lee, ESD, at extension 3148.

Yours truly,



E.A. Zimmerman, CEP, REM
Division Manager

EAF/RJL:rt

- Attachment I: Discharge Monitoring Report for December 1999,
- Attachment II: Analytical Results from H2M Labs for samples collected on 12/6/99, 12/8/99 and 12/10/99 from Outfall 001.
- Attachment III: Analytical Results from H2M Labs for samples collected from Outfalls 001A, 001B, 001D, 002, 003, 004, 005,006A, 006B,& 008
- Attachment IV: Analytical Results from CHEMTEX Inc. for samples collected from Outfalls 001F, 002, 003, 005, 006A,and 006B

- cc: K. Brog w/o attachments
- W. Chaloupka w/attachments
- G. Granzen w/o attachments
- M. Hart w/o attachments
- C. Johnson w/o attachments
- K. Johnson w/attachment
- R. Lee w/attachment
- E. Lessard w/o attachments
- D. Lowenstein w/o attachments
- E. Murphy w/attachments
- S. Ozaki w/o attachments
- D. Ports w/attachments
- W. Reeside w/o attachments
- L. Ross w/attachments

EC4220.99

ATTACHMENT I

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 1999

FOR OUTFALLS NO. 001 - 010

Brookhaven National Laboratory
SPDES Permit No. NY0005835
Discharge Monitoring Report for December 1999
 Discharge Monitoring Report Notes:

1. Since flow records are maintained on a weekly or monthly basis, the flow rate provided is the daily average.
2. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit. This contaminant has also been identified in the blank.
3. The reported concentration is estimated at less than the method detection limit but greater than the instrument detection limit.
4. PCBs were not detected in these samples at a method detection limit of 0.065 ppb per congener. Total PCBs have been reported as less than the individual detection limit.
5. Photographic rinse waters discharged from Building 197B, are generated by two individual photo-processors. Waste water samples are collected from each processor and analyzed separately. Table 1 summarizes the individual result. The maximum concentration and total average flow have been entered onto the DMR.

Location	Flow	PH	Total Nitrogen	Cyanide	Silver	Phenolics
1-86B	204 GPD	7.6	0.6 mg/L	< 10 ug/L	< 0.6 ug/L	< 5 ug/L
1-93A	1856 GPD	7.6	2.4 mg/L	< 10 ug/L	58.6 ug/L	< 5 ug/L
Total Flow	2060 GPD					

Note: A new processor has recently been added to Building 197B. Flow data and sample analysis will be provided in future reports.

6. There was no discharge from Outfalls 002A, 002B and 007 during this reporting period.
7. Flow is estimated based upon an instantaneous flow measurement and the assumption that flow continued for the entire day (i.e., 1,440 minutes).

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME **U S O E**
 ADDRESS **BROOKHAVEN NATIONAL LABORATORY**
53 BELL AVE, BLDG 464
UPTON NY 11973
 FACILITY **BROOKHAVEN NATIONAL LABORATORY**
 LOCATION **UPTON NY 11973**
 ATTN: **GEORGE MALOSH, GROUP MGR**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR) (17-1b)
NY0005835
 PERMIT NUMBER
001 B
 DISCHARGE NUMBER

Form Approved.
 OMB No. 2040-0004
 Approval expires 05-31-98

MAJOR (SUBR 01)
F - FINAL
 RINSE FROM CENTRAL DEGREASER 498
 *** NO DISCHARGE I-1 ***
 NOTE: Read instructions before completing this form

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 99 10 01 TO 99 12 31
 (20-21) (22-23) (24-26) (26-27) (28-29) (30-31)

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (64-67)			QUANTITY OR CONCENTRATION (64-67)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (64-67)	UNITS (07)	AVERAGE (46-53)	MAXIMUM (64-67)	UNITS			
FLOW RATE See note 1	*****	49	(07)	*****	*****	*****	0	Qtrly	Record
00056 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT DAILY MAX GPD	*****	*****	*****	*****	QTRLY	QTRLY	RECORD
PH	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	8.2	*****	(12)	0	Qtrly	Grab
CHROMIUM, TOTAL (AS CR)	*****	*****	*****	*****	*****	SU	0	QTRLY	GRAB
01034 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	(28)	0	Qtrly	Grab
COPPER, TOTAL (AS CU)	*****	*****	*****	*****	*****	UG/L	0	QTRLY	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	(28)	0	Qtrly	Grab
IRON, TOTAL (AS FE)	*****	*****	*****	*****	*****	UG/L	0	QTRLY	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	(28)	0	Qtrly	Grab
MANGANESE, TOTAL (AS MN)	*****	*****	*****	*****	*****	UG/L	0	QTRLY	GRAB
01055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	(28)	0	Qtrly	Grab
NICKEL, TOTAL (AS NI) See note 3	*****	*****	*****	*****	*****	UG/L	0	QTRLY	GRAB
01067 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	(28)	0	Qtrly	Grab

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1316. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER:
 George J. Malosh
 Group Manager

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 516 344-3424
 AREA CODE NUMBER

TELEPHONE DATE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL
 SAMPLES TO BE COLLECTED FROM DEDICATED DRAIN OR FROM HOLDING TANKS PRIOR TO DISCH TO SEWER COLLECTION SYS
 SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS (REPLACES EPA FORM 350 WHICH MAY NOT BE USED.)

MAJOR (SUBR 01) F - FINAL

NY0005835 PERMIT NUMBER

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 99 10 01 TO 99 12 31

NY 11973
 BROOKHAVEN NATIONAL LABORATORY
 53 BELL AVE, BLDG 464
 UPTON
 BROOKHAVEN NATIONAL LABORATORY
 UPTON
 NY 11973
 IN: GEORGE MALOSH, GROUP MGR

*** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (54-61)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (54-61)			
NC, TOTAL S ZN)	*****	*****	*****	*****	62.3	(28)	0	Qtrly	Grab
092 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<1	(28)	0	Qtrly	Grab
2-DICHLOROETHANE	*****	*****	*****	*****	1	(28)	0	Qtrly	Grab
103 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<1	(28)	0	Qtrly	Grab
LOROFORM	*****	*****	*****	*****	1	(28)	0	Qtrly	Grab
106 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<1	(28)	0	Qtrly	Grab
1,1-TRICHLORO-HANE	*****	*****	*****	*****	<1	(28)	0	Qtrly	Grab
506 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<1	(28)	0	Qtrly	Grab
OMODICHLOROMETHANE	*****	*****	*****	*****	5	(28)	0	Qtrly	Grab
FLUENT	*****	*****	*****	*****	<10	(28)	0	Qtrly	Grab
693 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<10	(28)	0	Qtrly	Grab
S (2-ETHYLHEXYL) THALATE See note 2	*****	*****	*****	*****	<10	(28)	0	Qtrly	Grab
100 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<10	(28)	0	Qtrly	Grab
-N-BUTYL PHTHALATE	*****	*****	*****	*****	<10	(28)	0	Qtrly	Grab
110 1 0 0 FLUENT GROSS VALUE	*****	*****	*****	*****	<10	(28)	0	Qtrly	Grab

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

George J. Malosh
 Group Manager

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

516 344-3424

AREA CODE NUMBER

TELEPHONE

DATE

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

See attached notes.

CHANGES OR ADDITIONS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL
 SAMPLES TO BE COLLECTED FROM DEDICATED DRAIN OR FROM HOLDING TANKS PRIOR TO DISCH TO SEWER COLLECTION SYS
 PERMIT FOR ADDITIONAL NOTES COMMENTS AND EPA FORM 3520-1 (08-98) PREVIOUS EDITIONS MAY NOT BE USED.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME **U S D O E**
 ADDRESS **BROOKHAVEN NATIONAL LABORATORY**
53 BELL AVE, BLDG 464
UPTON NY 11973
 FACILITY **BROOKHAVEN NATIONAL LABORATORY**
 LOCATION **UPTON NY 11973**
 ATTN: **GEORGE MALOSH, GROUP MGR**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)

NY0005835
 PERMIT NUMBER

001 B
 DISCHARGE NUMBER

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 99 10 01 TO 99 12 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

Form Approved.
 OMB No. 2040-0004
 Approval expires 05-31-98

MAJOR (SUBR 01)
F - FINAL
RINSE FROM CENTRL DEGREASR 498

***** NO DISCHARGE *****
 NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-55)	UNITS	AVERAGE (46-53)	MAXIMUM (54-55)	UNITS			
TETRACHLOROETHYLENE	*****	*****	*****	*****	< 1	(28)	0	Qtrly	Grab
85814 1 0 0	*****	*****	*****	*****	REPORT DAILY	UG/L	0	Qtrly	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	*****	*****	*****
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	*****	*****

(4 Card Only) (38-45) MINIMUM *****

(4 Card Only) (46-53) AVERAGE *****

(4 Card Only) (54-55) MAXIMUM *****

(4 Card Only) (54-61) QUANTITY OR LOADING

(4 Card Only) (54-61) QUANTITY OR CONCENTRATION

(4 Card Only) (62-63) NO. EX *****

(4 Card Only) (64-68) FREQUENCY OF ANALYSIS *****

(4 Card Only) (69-70) SAMPLE TYPE *****

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

516 344-3424

AREA CODE NUMBER

TELEPHONE

DATE

George J. Malosh

Group Manager

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL

SAMPLES TO BE COLLECTED FROM DEDICATED DRAIN OR FROM HOLDING TANKS PRIOR TO DISCH TO SEMER COLLECTION SYS

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

EPA Form 3320-1 (08-98) Previous editions may not be used.

U S D O E

BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON
BROOKHAVEN NATIONAL LABORATORY
UPTON

NY 11973
NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

NY0005835
PERMIT NUMBER

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
99 10 01 TO 99 12 31

0010
DISCHARGE NUMBER

MAJOR (SUBR 01)
F - FINAL

PHOTOPROCESSING RINSE FROM 197B

*** NO DISCHARGE ***
NOTE: Read instructions before completing this form.

PARAMETER (62-37)	QUANTITY OR LOADING (46-53)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-69)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW RATE See note 1 4 5 00056 1 0 0	*****	2060	(07)	*****	*****	*****	0	Qtrly	Recorder
EFFLUENT GROSS VALUE	*****	DAILY MAX EPD	*****	*****	*****	*****	0	Qtrly	Recorder
PH See note 5	*****	*****	*****	7.57	7.64	(12)	0	2/Qtr	Grab
00400 1 0 0	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	2.4	(19)	0	Qtrly	Grab
NITROGEN, TOTAL (AS N) See note	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
00600 1 0 0	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
CYANIDE, TOTAL (AS CN) See note	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
00720 1 0 0	*****	*****	*****	*****	< 10	(28)	0	Qtrly	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
SILVER, TOTAL See note	*****	*****	*****	*****	58.6	(28)	0	Qtrly	Grab
01077 1 0 0	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
PHENOLICS, TOTAL RECOVERABLE See note	*****	*****	*****	*****	< 5	(28)	0	Qtrly	Grab
02730 1 0 0	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	Grab
	SAMPLE MEASUREMENT								
	PERMIT REQUIREMENT								

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 50 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager
TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
516 344-3424
TELEPHONE
DATE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDOC APPROVAL
SAMPLES TO BE COLLECTED FROM MANHOLE NEAREST THE BUILDING
SEE PERMIT FOR ADDITIONAL NOTES. COMMENTS AND FORM 1-80 WHICH MAY NOT BE USED.
EPA Form 3820-1 (08-95) Previous editions may not be used.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON NY 11973

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
NY0005835 PERMIT NUMBER
001 E DISCHARGE NUMBER

FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON
ATTN: GEORGE MALOSH, GROUP MGR

MAJOR (SUBR 01)
F - FINAL
COOLING TOWER WTR & BLOWDN 902

MONITORING PERIOD
YEAR MO DAY
99 10 01 TO 99 12 31

NOTE: Read instructions before completing this form.

*** NO DISCHARGE () ***

FORM APPROVED. OMB No. 2040-0004. Approval expires 05-31-88.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (34-61)			(4 Card Only) QUANTITY OR CONCENTRATION (64-67)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLU TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (07)	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (64-67)			
FLOW RATE See note 1	*****	2333	(07)	*****	*****	*****	0	Qtrly	Record
00056 EFFLUENT GROSS VALUE	*****	*****	GPD	*****	*****	*****	0	Qtrly	Record
PH	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
00400 EFFLUENT GROSS VALUE	*****	*****	*****	*****	8.78	(12)	0	Qtrly	Record
PROPYLENE GLYCOL MONOETHYL ETHER	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
49875 EFFLUENT GROSS VALUE	*****	*****	*****	*****	<500	(28)	0	Qtrly	Record
	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
	*****	*****	*****	*****	*****	*****	0	Qtrly	Record
	*****	*****	*****	*****	*****	*****	0	Qtrly	Record

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER George J. Malosh Group Manager	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
TYPED OR PRINTED		AREA CODE NUMBER 516 344-3424	YEAR MO DA

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
NO CHANGES OR ADDITIONS OF CHEMICALS TO COOLING OR BOILER WATER W/O PRIOR NYSDEC APPROVAL
SAMPLES TO BE COLLECTED FROM A DEDICATED DRAIN OR FROM HOLDING TANKS PRIOR TO DISCHARGE TO SEWER COLL SY

NAME **U S D O E**
 ADDRESS **BROOKHAVEN NATIONAL LABORATORY**
53 BELL AVE, BLDG 464
UPTON NY 11973
 FACILITY **BROOKHAVEN NATIONAL LABORATORY**
 LOCATION **UPTON NY 11973**
 ATTN: **GEORGE MALOSH, GROUP MGR**

PERMIT NUMBER **NY0005835**
 DISCHARGE NUMBER **001 M**
 MONITORING PERIOD
 YEAR **99** MO **12** DAY **01**
 TO **99** MO **12** DAY **31**
 FROM **99** MO **12** DAY **01**

MAJOR (SUBR 01)
F - FINAL
 PROCESS **SANIT & STORMWTR RNOFF**
 *** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (54-61)			(4 Card Only) QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE
	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS (58-61)	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS (58-61)			
TEMPERATURE, WATER DEG. FAHRENHEIT	*****	*****	*****	*****	59°	(15)	0	5/7	Grab
00011 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	90	DAILY MX DEG.F	DAILY	GRAB	24 hr comp
BOD, 5-DAY (20 DEG. C)	*****	*****	*****	*****	3	(19)	0	3/Mo	ONCE/ MONTH
00310 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	7.6	(12)	0	continuous	DAILY GRAB
PH	*****	*****	*****	*****	6.6	MINIMUM	0	DAILY	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	9.0	MAXIMUM	0	3/mo	24 hr comp
SOLIDS, TOTAL SUSPENDED	*****	*****	*****	*****	<10	(19)	0	ONCE/ MONTH	ONCE/ MONTH
00530 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	<10	(19)	0	5/7	GRAB
SOLIDS, SETTLEABLE	*****	*****	*****	*****	0.0	(25)	0	DAILY	GRAB
00545 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	0.1	DAILY MX ML/L	0	3/mo	24 hr comp
NITROGEN, TOTAL (AS N)	*****	*****	*****	*****	8.05	(19)	0	ONCE/ MONTH	ONCE/ MONTH
00600 1 0 1 EFFLUENT GROSS VALUE	*****	*****	*****	*****	1.3	(19)	0	3/mo	24 hr comp
NITROGEN, AMMONIA TOTAL (AS N)	*****	*****	*****	*****	1.3	(19)	0	ONCE/ MONTH	ONCE/ MONTH
00610 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	1.3	(19)	0	ONCE/ MONTH	ONCE/ MONTH

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 George J. Malosh
 Group Manager

TELEPHONE
 516 344-3424

DATE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

AREA CODE NUMBER YEAR MO DAY

516 344-3424

SEE PERMIT FOR ADDITIONAL NOTES. PREVIOUS EDITIONS MAY NOT BE USED.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL

SEE PERMIT FOR ADDITIONAL NOTES. PREVIOUS EDITIONS MAY NOT BE USED.

REPLACES EPA FORM 140 WHICH MAY NOT BE USED.

01347/991211-2215

PAGE 1 OF

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON NY 11973
BROOKHAVEN NATIONAL LABORATORY
UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

MAJOR (SUBR 01)
F - FINAL
PROCESS SANIT & STORMWTR RNOFF

NY0005835 PERMIT NUMBER
001-A DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
99	12	01	99	12	31

FROM (20-21) (22-23) (24-25) TO (26-27) (28-29) (30-31)

*** NO DISCHARGE I-1 ***
NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (64-67)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE (46-53)	MAXIMUM (54-57)	MINIMUM (58-61)	AVERAGE (49-53)	MAXIMUM (64-67)	MINIMUM (68-71)				
PHOSPHORUS, TOTAL (AS P)	00665 1 0 1	*****	*****	*****	*****	*****	1.3	0	3/mo	24 hr	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		
CYANIDE, TOTAL (AS CN)	00720 1 0 0	*****	*****	*****	*****	*****	<10	0	3/mo	24 hr Comp	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		
COPPER, TOTAL (AS CU)	01042 1 0 0	*****	*****	*****	*****	*****	0.049	0	3/mo	24 hr Comp	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		
IRON, TOTAL (AS FE)	01045 1 0 0	*****	*****	*****	*****	*****	0.157	0	3/mo	24 hr Comp	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		
LEAD, TOTAL See note 3 (AS PB)	01051 1 0 0	*****	*****	*****	*****	*****	0.003	0	3/mo	24 hr Comp	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		
NICKEL, TOTAL See note 3 (AS NI)	01067 1 0 0	*****	*****	*****	*****	*****	0.006	0	3/mo	24 hr Comp	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		
SILVER, TOTAL See note 3 (AS AG)	01077 1 0 0	*****	*****	*****	*****	*****	0.003	0	3/mo	24 hr Comp	
EFFLUENT GROSS VALUE		*****	*****	*****	*****	*****	DAILY MAX MG/L	ONCE/MONTH	COMP		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE

516 344-3424

AREA CODE NUMBER YEAR MO DAY

TYPED OR PRINTED

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400-5.

SEE PERMIT FOR ADDITIONAL NOTES AND REQUIREMENTS WHICH MAY NOT BE USED.

01348/991211-2215

PAGE 2 OF

PERMIT NUMBER
 NY0005835
 DISCHARGE NUMBER
 001 M

MONITORING PERIOD
 YEAR MO DAY
 99 12 01
 TO 99 12 31

HAJUR (SUBR 01)
 F - FINAL
 PROCESS SANIT & STORMWTR RNOFF

*** NO DISCHARGE
 NOTE: Read instructions before completing this form.

NATIONAL POLLUTANT DISCHARGE REPORT (DWR)
 (17-19)
 APPROVAL EXPIRES 05 31 03

QUANTITY OR LOADING (54-61)
 (3 Card Only) (46-53)
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

QUANTITY OR CONCENTRATION (54-61)
 UNITS (19)
 MAXIMUM 0.060
 AVERAGE *****
 MINIMUM *****

NO. FREQUENCY OF ANALYSIS (64-68)
 EX (62-63)
 0 3/mo
 ONCE/MONTH
 ONCE/COMP24

SAMPLE TYPE (69-70)
 24 hr comp
 (69-70)
 24 hr comp

TELEPHONE DATE
 516 344-3424
 AREA CODE NUMBER
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 George J. Malosh
 Group Manager

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS (46-53)	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS (46-53)			
ZINC, TOTAL (AS ZN)	*****	*****	*****	*****	0.060	(19)	0	3/mo	(69-70) 24 hr comp
EFFLUENT GROSS VALUE	*****	*****	*****	*****	DAILY MX	MG/L	0	ONCE/MONTH	COMP24
TOLUENE	*****	*****	*****	*****	<1	(28)	0	3/mo	Grab
34010 1 0 1	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	<1	(28)	0	3/mo	Grab
METHYLENE CHLORIDE	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
34423 1 0 1	*****	*****	*****	*****	<1	(28)	0	3/mo	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
1,1,1-TRICHLOROETHANE	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
34506 1 0 1	*****	*****	*****	*****	<1	(28)	0	3/mo	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
50050 1 0 1	*****	0.665	*****	*****	<1	(28)	0	3/mo	Grab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	DAILY MX	UG/L	0	THICE/MONTH	GRAB
MERCURY, TOTAL (AS HG)	*****	*****	*****	*****	0.0001	(19)	0	3/mo	24 hr comp
71900 1 0 1	*****	*****	*****	*****	DAILY MX	MG/L	0	ONCE/MONTH	COMP24
EFFLUENT GROSS VALUE	*****	*****	*****	*****	30	(13)	0	3/mo	Grab
CALIFORNIA, FECAL GENERAL	*****	*****	*****	*****	DAILY MX	LOOML	0	ONCE/MONTH	GRAB
74055 1 0 0	*****	*****	*****	*****	DAILY MX	LOOML	0	ONCE/MONTH	GRAB
EFFLUENT GROSS VALUE	*****	*****	*****	*****	DAILY MX	LOOML	0	ONCE/MONTH	GRAB

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 53 U.S.C. § 1316. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 George J. Malosh
 Group Manager

TYPED OR PRINTED

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 QUANTITIES OR CONCENTRATIONS OF RADIOACTIVITY IN EFFLUENT ARE SUBJECT TO REQUIREMENTS OF THE USDOE INCL BUT NOT LIMITED TO USDOE ORDER 5400.5.
 SEE PERMIT FOR ADDITIONAL NOTES. COMMENTS AND REQUIREMENTS (REPLACES EPA FORM 740 WHICH MAY NOT BE USED.)
 EPA Form 3320-1 (08-85) Previous editions may not be used.

PERMIT NUMBER
 NY0005835
 DISCHARGE NUMBER
 001 0
 MONITORING PERIOD
 YEAR MO DAY TO YEAR MO DAY
 99 10 01 TO 99 12 31
 FROM 99 10 01 TO 99 12 31

MAJOR (SUBR 01)
 F - FINAL
 PROCESS SANIT EFFL & STORMWTR
 *** NO DISCHARGE ***
 NOTE: Read Instructions before completing this form.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)
 OMB No. 2040-0004
 Approval expires 05-31-98

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (84-87)			NO. EX (62-63)	NO. FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)			
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS		
POLYCHLORINATED DIPHENYLS (PCBS) 19516 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	Qtrly	Grab			
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT DAILY MX UG/L		QTRLY GRAB				
See note 4	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****						
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****						
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****						
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****						
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****						
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****						
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						TELEPHONE		DATE		
George J. Malosh Group Manager								516 344-3424				
TYPED OR PRINTED								AREA CODE	NUMBER	YEAR	MO	DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 6 years.)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 See attached notes.
 PCB ANALYSIS TO USE EPA METHOD 608 WITH AN MDL GOAL OF 0.065 PPB

EPA Form 3320-1 (08-86) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 01351/991211-2215 PAGE 1 OF 1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME **U S D O E**
 ADDRESS **BROOKHAVEN NATIONAL LABORATORY
 53 BELL AVE, BLDG 464
 UPTON
 BROOKHAVEN NATIONAL LABORATORY
 UPTON
 ATTN: GEORGE MALOSH, GROUP MGR**

FACILITY **NY 11973**
 LOCATION **NY 11973**
ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-1b)
NY0005835
 PERMIT NUMBER
002 A
 DISCHARGE NUMBER

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM **99 12 01** TO **99 12 31**
 (20-21) (22-23) (24-25) (26-26) (28-29) (30-31)
 (38-45) QUANTITY OR CONCENTRATION
 (54-61)

Form Approved.
 OMB No. 2040-0004
 Approval expires 05-31-98

**MAJOR
 (SUBR 01)
 F - FINAL
 BRAHMS(1002) & PHOBOS(1010) CI**

*** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)				(4 Card Only) QUANTITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	(38-45)	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
00400 1 0 0	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			ONCE/MONTH	GRAB	
JIL & GREASE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
00556 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
FLOW, IN CONDUIT OR	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
THRU TREATMENT PLANT	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
50050 1 0 0	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
see note 6	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****					
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****					

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 George J. Malosh
 Group Manager
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 TELEPHONE
 516 344-3424
 AREA CODE NUMBER YEAR MO DAY
 516 344-3424

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 DISCHARGE MAY BE DIRECTED TO SURROUNDING LOW LYING AREA INSIDE ROADWAY THAT IS INSIDE RHIC RING. ONCE SW COLLECTION SYS IS EXTENDED TO 1010, THE PHOBOS DETECTOR'S C T B SHOULD BE DIRECTED TO OUTFALL #002 & BRAHMS C T B SHOULD BE DIRECTED TO NEW RECHARGE BASIN. NO TEST TUBES WITHOUT PRIOR DEC APPROVAL.
 See attached notes.
 EPA Form 3320-1 (08-98) Previous editions may not be used. N1252/001211-2215

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)

NY 0005835
 PERMIT NUMBER

002 B
 DISCHARGE NUMBER

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 99 12 01 TO 99 12 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MAJOR (SUBR 01)
 F - FINAL
 RF(1004) COOLING TOWER BLOWDN

*** NJ DISCHARGE I X I ***
 NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (54-61)		(4 Card Only) QUANTITY OR CONCENTRATION (54-61)		NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-55)	MINIMUM (38-45)	AVERAGE (46-53)			
PH	*****	*****	*****	*****			
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****		ONCE / MONTH	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****		ONCE / MONTH	GRAB
THRU TREATMENT PLANT	*****	No Discharge	*****	*****			
50050 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****		ONCE / MONTH	RECORD
See note 6							
I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
George J. Malosh Group Manager						516 344-3424	
TYPED OR PRINTED				AREA CODE NUMBER		YEAR MO DAY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MAY BE DIRECTED TO SURROUNDING LOW LYING AREA INSIDE ROADWAY THAT IS INSIDE RHIC RING. ONCE STORMWATER COLLECTION SYSTEM IS EXTENDED TO BLDG 1010 & A NEW RECHARGE BASIN IS CONSTRUCTED, DISCHARGE SHOULD BE TO NEW BASIN.

FORM 3320 (08-85) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

01353/991211-2215

PAGE 1 OF 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

NY0005835
PERMIT NUMBER

002 Q
DISCHARGE NUMBER

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME U S O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON NY 11973
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

MAJOR (SUBR 01)
F - FINAL
AGS NON-C COOLG, PRECP ETC(HN)
*** NO DISCHARGE ***
NOTE: Read Instructions before completing this form

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	AVERAGE (46-53)	MINIMUM (38-45)	MAXIMUM (54-61)			
CHLOROFORM	*****	*****	*****	*****	*****	< 1	0	Qtrly	Grab
32106 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX	QTRLY GRAB		
1,1,1-TRICHLOROETHANE	*****	*****	*****	*****	*****	< 1	0	Qtrly	Grab
34506 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX	QTRLY GRAB		
BROMODICHLOROMETHANE	*****	*****	*****	*****	*****	< 1	0	Qtrly	Grab
38693 1 0 1 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX	QTRLY GRAB		
1-HYDROXY-ETHYLIDENE	*****	*****	*****	*****	*****	< 0.05	0	Qtrly	Grab
85812 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX	QTRLY GRAB		
TOLYTRIAZOLE	*****	*****	*****	*****	*****	< 0.005	0	Qtrly	Grab
85813 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	DAILY MX	QTRLY GRAB		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	George J. Malosh Group Manager			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		
TYPED OR PRINTED				516 344-3424			DATE		
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)				AREA CODE			YEAR MO DAY		

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS
SAMPLING TO BE DOWNSTREAM OF WHERE EXISTING DISCHARGE MIXES WITH RECEIVING TOWER BLOWDOWN FROM STAR DETECTOR
EPA Form 3250-1 (08-98) Previous editions may not be used. (REPLACES EPA FORM 1-76 WHICH MAY NOT BE USED.) 01355/991211-2215 PAGE 1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON

FACILITY LOCATION UPTON
NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER

NY0005835

DISCHARGE NUMBER

002 R

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
99	10	01	99	12	31
FROM			TO		
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

MAJOR (SUBR 01)
F - FINAL
RF (1004) COOLING TOWER BLOWDN

*** NO DISCHARGE IX I ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS			
L-HYDROXY-ETHYLIDENE	*****	*****		*****	*****	(19)			
85812 1 0 0 EFFLUENT GROSS VALUE	*****	*****	***	*****	*****	DAILY MAX MG/L	01	OTRLY GRAD	
POLYTRIAZOLE	*****	*****	***	*****	*****	(19)			
85813 1 0 0 EFFLUENT GROSS VALUE	*****	*****	***	*****	*****	DAILY MAX MG/L	01	OTRLY GRAD	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
516 344-3424

TELEPHONE
DATE

AREA CODE NUMBER YEAR MO DAY
516 344-3424

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
DISCHARGE MAY BE DIRECTED TO SURROUNDING LOW LYING AREA INSIDE THE ROADWAY THAT IS INSIDE THE RHIC RING. ONCE THE STORMWATER COLLECTION SYSTEM IS EXTENDED TO 1010 & A NEW RECHARGE BASIN IS CONSTRUCTED, DISCHARGE SHALL BE DIRECTED TO THE NEW BASIN.

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

DISCHARGE MONITORING REPORT (DMR) (17-19)
 MAJOR (SUBR 01)
 F - FINAL
 HFBR & AGS NON-C COOL, ETC (HO)

NAME U S D G E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 53 BELL AVE, BLDG 464
 FACILITY UPTON NY 11973
 LOCATION BROOKHAVEN NATIONAL LABORATORY
 UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

PERMIT NUMBER NY0005835
 DISCHARGE NUMBER 003 M
 MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 99 12 01 TO 99 12 31

*** NO DISCHARGE ***
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)			
PH	*****	*****		7.45	7.83		0	4/mo	Grab
00400 1 0 1 EFFLUENT GROSS VALUE	*****	*****		REPORT MINIMUM	9.0 MAXIMUM	SU	ONCE/ MONTH	ONCE/ MONTH	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****		*****	< 5.0		0	1/mo	Grab
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	*****		*****	15 DAILY MAX	MG/L	ONCE/ MONTH	ONCE/ MONTH	GRAB
50050 1 0 0 EFFLUENT GROSS VALUE	*****	*****	(03)	*****	*****		0	1/mo	recorder
See note 1	*****	*****	REPORT DAILY MAX MG/D	*****	*****		ONCE/ MONTH	ONCE/ MONTH	RCORDR
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				
	*****	*****		*****	*****				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 George J. Malosh
 Group Manager
 TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
 516 344-3424

DATE

AREA CODE NUMBER

YEAR MO DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

See attached notes.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME U S D O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON
FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON
ATTN: GEORGE MALOSH, GROUP MGR

MAJOR (SUBR 01)
F - FINAL
HFBR & AGS NON-C COOL ETC (HO)

NY0005835
PERMIT NUMBER

003 Q
DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY
99 10 01 TO 99 12 31

NY 11973
NY 11973
NY 11973

*** NO DISCHARGE ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
ZINC, TOTAL (AS ZN) See note 3	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
1,1,1-TRICHLORO-ETHANE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
2,2-DIBROMO-3-NITROPROPIONAMIDE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
1-HYDROXY-ETHYLIDENE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
TOLYTRIAZOLE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	Qtrly	GRab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

516 344-3424

AREA CODE NUMBER

TELEPHONE

DATE

YEAR MO DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 53 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSDEC APPROVAL
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME **U S D O E**
 ADDRESS **BROOKHAVEN NATIONAL LABORATORY**
53 BELL AVE, BLDG 464
UPTON
NY 11973
BROOKHAVEN NATIONAL LABORATORY
UPTON
NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)

PERMIT NUMBER **NY0005835**

DISCHARGE NUMBER **004 H**

MONITORING PERIOD
 FROM **99 12 01** TO **99 12 31**
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

Form Approved
 OMB No. 2040-0004
 Approval expires 05-31-93

MAJOR (SUBR 01)
F - FINAL
MRR NON-CONTACT COOLG MTR (HP)

***** NO DISCHARGE *****
 NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (46-53)	UNITS (46-53)	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (46-53)			
PH	*****	*****		6.48	*****	(12)	0	1/mo	Grab
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****		REPORT MINIMUM	*****	SU	ONCE/ MONTH	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	*****	(03)	*****	*****		0	1/mo	recorder
50050 1 0 0 EFFLUENT GROSS VALUE	*****	0.1		REPORT DAILY RX MGD	*****		ONCE/ MONTH	ONCE/ MONTH	
See note 1									

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 George J. Malosh
 Group Manager

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 516 344-3424

TELEPHONE
 AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

See attached notes.

EPA Form 3320-1 (08-95) Previous editions may not be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

01359/991211-2215

PAGE 1 OF

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME U S O O E
 ADDRESS BROOKHAVEN NATIONAL LABORATORY
 53 BELL AVE, BLDG 464
 UPTON NY 11973
 FACILITY BROOKHAVEN NATIONAL LABORATORY
 LOCATION UPTON NY 11973
 ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)
 PERMIT NUMBER NY0005835
 DISCHARGE NUMBER 004 0
 MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 99 10 01 TO 99 12 31

Form Approved.
 OMB No. 2040-0004
 Approval expires 05-31-88

MAJOR (SUBR 01)
 F - FINAL
 MRR NON-CONTACT COOLING (HP)

*** NO DISCHARGE 1-1 ***
 NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	SAMPLER MEASUREMENT	QUANTITY OR LOADING (46-53)			QUANTITY OR CONCENTRATION (64-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	AVERAGE	MAXIMUM	UNITS			
1,1-DICHLOROETHYLENE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0	Qtrly	Grab	
34501 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	Qtrly GRAB	Grab	
1,1,1-TRICHLOROETHANE	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0	Qtrly	Grab	
34506 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	Qtrly GRAB	Grab	
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 George J. Malosh
 Group Manager
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1315. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 516 | 344-3424
 AREA CODE NUMBER
 TELEPHONE
 DATE
 YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 NO ADDITIONAL WATER TREATMENT CHEMICALS W/O PRIOR NYSEDC APPROVAL
 SEE PERMIT FOR ADDITIONAL NOTFS, COMMENTS AND REQUIREMENTS
 See attached notes.

NAME U S O O E
ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON NY 11973

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR) (17-19)
NY00005835 PERMIT NUMBER
005 M DISCHARGE NUMBER

MAJOR (SUBR 01)
F - FINAL
NSLS COOLING TWR BLDN ETC(HS)

FACILITY BROOKHAVEN NATIONAL LABORATORY
LOCATION UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
99	12	01	99	12	31

*** NO DISCHARGE 1-1 ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLING MEASUREMENT	QUANTITY OR LOADING (46-53)		QUANTITY OR CONCENTRATION (54-61)		NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	AVERAGE	MAXIMUM			
PH	SAMPLE MEASUREMENT	*****	*****	7.08	*****	0	4/mo	Grab
00400 1 0 0 EFFLUENT GROSS VALUE DIL & GREASE	PERMIT REQUIREMENT	*****	*****	REPORT MINIMUM	8.5 MAXIMUM	0	ONCE / MONTH	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	*****	< 5.0	0	1/mo	Grab
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****	0.15	*****	*****	0	4/mo	recoder
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	REPORT DAILY MX	*****	*****	0	ONCE / MONTH	RECORD
See note 1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	*****
	PERMIT REQUIREMENT	*****	*****	*****	*****	0	*****	*****
	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	*****
	PERMIT REQUIREMENT	*****	*****	*****	*****	0	*****	*****
	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	*****
	PERMIT REQUIREMENT	*****	*****	*****	*****	0	*****	*****
	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	*****
	PERMIT REQUIREMENT	*****	*****	*****	*****	0	*****	*****
	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	*****
	PERMIT REQUIREMENT	*****	*****	*****	*****	0	*****	*****
	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	*****	*****
	PERMIT REQUIREMENT	*****	*****	*****	*****	0	*****	*****

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY KNOWLEDGE AND BELIEFS, I BELIEVE THE INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 53 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE
DATE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS
See attached notes.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME **U S D O E**
ADDRESS **BROOKHAVEN NATIONAL LABORATORY**
53 BELL AVE, BLDG 464
UPTON NY 11973
FACILITY **BROOKHAVEN NATIONAL LABORATORY**
LOCATION **UPTON NY 11973**
ATTN: **GEORGE MALOSH, GROUP MGR**

NY0005835
PERMIT NUMBER

005 0
DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY TO YEAR MO DAY
99 10 01 99 12 31

MAJOR (SUBR 01)
F - FINAL
NLS COOLG TORR BLOWDN ETC(HS)

*** NO DISCHARGE ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (64-67)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
COPPER, TOTAL (AS CU)	*****	*****	*****	*****	*****	(19)	0	Qtrly	Grab
01042 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	MG/L	0	QTRLY GRAB	Grab
1-HYDROXY-ETHYLIDENE	*****	*****	*****	*****	*****	MG/L	0	QTRLY GRAB	Grab
85812 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	MG/L	0	QTRLY GRAB	Grab
TOLYTRIAZOLE	*****	*****	*****	*****	*****	MG/L	0	QTRLY GRAB	Grab
85813 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	MG/L	0	QTRLY GRAB	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
516 344-3424

TELEPHONE

DATE

AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NO ADDITIONAL WATER TREATMENT CHEMICAL ADDITIVES W/O PRIOR NYSEDC APPROVAL
SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

See attached notes.

MAJOR (SUBR 01)
F - FINAL
WATER TREATMENT PLT BKWSH (HX)

NY0005835 PERMIT NUMBER
007 M DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
99 12 01 99 12 31

*** NO DISCHARGE I XI ***
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (07)	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)			
FLOW RATE <i>See note 6</i>	*****	No Discharge	(07)	*****	*****	*****			
00056 EFFLUENT GROSS VALUE	*****	REPORT DAILY MAX SPD		*****	*****	*****		ONCE / MONTH	INSTAN
PH	*****	*****		*****	*****	(12)			
00400 EFFLUENT GROSS VALUE	*****	*****		*****	*****			ONCE / MONTH	GRAB
IRON, TOTAL (AS FE)	*****	*****		*****	9.0 MAXIMUM SU	(28)			
01045 EFFLUENT GROSS VALUE	*****	*****		*****	REPORT DAILY MAX UG/L			ONCE / MONTH	GRAB
IRON, DISSOLVED (AS FE)	*****	*****		*****	REPORT DAILY MAX UG/L			ONCE / MONTH	GRAB
01046 EFFLUENT GROSS VALUE	*****	*****		*****	REPORT DAILY MAX UG/L			ONCE / MONTH	GRAB

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE

516 344-3424

AREA CODE NUMBER YEAR MO DAY

516 344-3424

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SAMPLES TO BE COLLECTED AT EFFLUENT PIPE TO WHICHEVER BASIN IS IN OPERATION AT THE TIME. STANDING WATER IN EITHER BASIN SHALL NOT BE COLLECTED FOR DMR SAMPLING PURPOSES.

REPLACES FORM 350-1 (04-88) PREVIOUS EDITIONS MAY NOT BE USED.

01363/991211-2215

PAGE 1 OF 1

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

U S D O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE., BLDG 464
UPTON

FACILITY NY 11973
LOCATION BROOKHAVEN NATIONAL LABORATORY
UPTON NY 11973

ATTN: GEORGE MALOSH, GROUP MGR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

NY0005835 PERMIT NUMBER

06A M DISCHARGE NUMBER

MONITORING PERIOD

YEAR MO DAY TO YEAR MO DAY
99 12 01 TO 99 12 31

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MAJOR (SUBR 01)
F - FINAL

LINAC NCCW, FLOOR DNS, ETC (HT1)

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (54-61)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)											
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS										
PH	*****	*****		7.64	*****		0	4/mo	Grab											
00400 1 0 1 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	9.0 MAXIMUM SU	0	ONCE/MONTH	GRAB											
00556 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	4.5	0	1/mo	Grab											
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	0.11	(03)	*****	*****	DAILY MAX MG/L	0	4/mo	recorder											
50050 1 0 0 EFFLUENT GROSS VALUE	*****	*****	DAILY MAX MGD	*****	*****	*****	0	ONCE/MONTH	*****											
See note 1	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT	MEASUREMENT	PERMIT REQUIREMENT
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			George J. Malosh Group Manager			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE			DATE								
TYPED OR PRINTED						516 344-3424			AREA CODE NUMBER			YEAR MO DAY								

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND I AM BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1316. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS AND REQUIREMENTS

See attached notes.

NAME U S O E

ADDRESS BROOKHAVEN NATIONAL LABORATORY
53 BELL AVE, BLDG 464
UPTON

FACILITY NY 11973
BROOKHAVEN NATIONAL LABORATORY
UPTON NY 11973
ATTN: GEORGE MALOSH, GROUP MGR

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER NY0005835

DISCHARGE NUMBER 06B M

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
99	12	01	99	12	31

FROM (20-21) (22-23) (24-28) TO (28-27) (28-29) (30-31)

MAJOR (SUBR 01)
F - FINAL

COOLING TOWER FROM 919 ETC(HI2)

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (46-53)			QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH	*****	*****	*****	7.94	*****	8.12	0	4/mo	Grab
00400 1 0 1 EFFLUENT GROSS VALUE OIL & GREASE	*****	*****	*****	*****	*****	*****	0	ONCE/MONTH	GRAB
00556 1 0 0 EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	0.16	*****	*****	*****	*****	0	4/mo	recorder
50050 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	0	ONCE/MONTH	GRAB
See note 1	*****	*****	*****	*****	*****	*****	0	ONCE/MONTH	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
George J. Malosh
Group Manager

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

516 344-3424

AREA CODE NUMBER YEAR MO DAY

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PERMIT FOR ADDITIONAL NOTES, COMMENTS & REQUIREMENTS

See attached notes.

EPA Form 320-1 (08-95) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PAGE OF

ATTACHMENT II

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 1999

ANALYTICAL RESULTS FROM H2M LABS, INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

12/6/99, 12/8/99, AND 12/10/99

FROM OUTFALL 001

Client: **Brookhaven National Laboratory**
 Safety & Environmental
 Protection Division
 Bldg. 535A
 Upton, NY 11973-5000
 Attn: **Mr. B. Lee**

Report Date: 11/17/99

RESULTS OF ANALYSIS

PROJECT: SPDES

ATTACHMENT 1

OUTRIGGER A

COC_num	Site-ID	Samp_type	Samp_ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file_ID	Samp_depth	Flow_rate	Notes	Lab_QCnotes	Rev_qual	ev_conc	Rev_QCnotes
5562	054-600991005-14	W	H1-	10/05/99	1453	10/08/99		P91000257							
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	ev_conc	Rev_QCnotes
	HE D P as Organic Phosphorus	< 0.05		0.05	mg/l	10/08/99	EPA 365.3	P91000260							
	Inorganic Phosphorus	< 0.05		0.05	mg/l	10/08/99	EPA 365.3								
	Total Phosphorus	< 0.05		0.05	mg/l	10/08/99	EPA 365.3								
	Tolytriazole	< 0.005		0.005	mg/l	11/02/99	HPLC/UV								

Required fields are shaded.

Client: **Brookhaven National Laboratory**
 Safety & Environmental
 Protection Division
 Bldg. 535A
 Upton, NY 11973-5000
 Attn: **Mr. B. Lee**

Report Date: 11/17/99

RESULTS OF ANALYSIS

PROJECT: SPDES

ATTACHMENT I

OUTFALL 005

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file_ID	Samp_depth	Flow_rate	Notes	Lab_qual	Lab_QCnotes	Rev_qual	ev_conc	Rev_QCnotes
Cas_num	Name	Concen	Error	Det limit	Units	Anal date	Method	Lab batch-ID	Ext date	Dilution						
5562	105-600991005-14	W	H	10/05/99	1425	10/08/99		P91000257								
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	10/08/99	EPA 365.3	P91000259								
	Inorganic Phosphorus	0.05		0.05	mg/l	10/08/99	EPA 365.3									
	Total Phosphorus	0.06		0.05	mg/l	10/08/99	EPA 365.3									
	Tolytriazole	< 0.005		0.005	mg/l	11/02/99	HPLC/UV									

Required fields are shaded.
 Required field under some circumstances (see Att. 2)

Client: **Brookhaven National Laboratory**
 Safety & Environmental
 Protection Division
 Bldg. 535A
 Upton, NY 11973-5000
 Attn: **Mr. B. Lee**

Report Date: 11/17/99

RESULTS OF ANALYSIS

PROJECT: SPDES

ATTACHMENT 1

OUTFALL 003

COC_num	Site-ID	Samp_type	Samp_ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_qual	Lab_QCnotes	Rev_qual	ev_conc	Rev_QCnotes
5562	054-600991005-14	W	H	10/05/99	1345	10/08/99		P91000257								
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution						
	HE D P as Organic Phosphorus	< 0.05		0.05	mg/l	10/08/99	EPA 365.3	P91000257								
	Inorganic Phosphorus	0.05		0.05	mg/l	10/08/99	EPA 365.3									
	Total Phosphorus	0.07		0.05	mg/l	10/08/99	EPA 365.3									
	Tolytriazole	0.061		0.005	mg/l	11/02/99	HPLC/UV									
	Dibromonitropropionamide	< 0.005		0.005	mg/l	10/25/99	HPLC/UV									

Required fields are shaded.

Required field under some circumstances (see Att. 2)

Report Date: 11/17/99

Client: **Brookhaven National Laboratory**
 Safety & Environmental
 Protection Division
 Bldg. 535A
 Upton, NY 11973-5000
 Attn: **Mr. B. Lee**

RESULTS OF ANALYSIS

PROJECT: SPDES

ATTACHMENT I

OUTFAH 002

COC_num	Site-ID	Samp_type	Samp-ID	Samp_date	Samp_time	Rec_date	SDG	Lab_file-ID	Samp_depth	Flow_rate	Notes	Lab_QCnotes	Rev_qual	ev_conc	Rev_QCnotes
Cas_num	Name	Concen	Error	Det_limit	Units	Anal_date	Method	Lab_batch-ID	Ext_date	Dilution	Lab_qual	Lab_QCnotes	Rev_qual	ev_conc	Rev_QCnotes
5562	036-600991005-14	W	H	10/05/99	1405	10/08/99		P91000257							
	H E D P as Organic Phosphorus	< 0.05		0.05	mg/l	10/08/99	EPA 365.3	P91000258							
	Inorganic Phosphorus	0.06		0.05	mg/l	10/08/99	EPA 365.3								
	Total Phosphorus	0.08		0.05	mg/l	10/08/99	EPA 365.3								
	Tolytriazole	< 0.005		0.005	mg/l	11/02/99	HPLC/UV								

Required fields are shaded.
 Required field under some circumstances (see Att. 2)

ATTACHMENT IV

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 1999

ANALYTICAL RESULTS FROM CHEMTEX INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

FROM OUTFALLS 001F, 002, 003, 005, 006A, AND 006B

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99 POINT NO:
TIME COLLECTED. 1333 HRS. LOCATION: 002
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT REMARKS: SPDES
PROJECT NO..... 5964

PARAMETER (S)

RESULTS UNITS

OIL AND GREASE

<5.0 mg/l

outfall 006 B
Gross
Date sampled 12/16/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Alavine
LABORATORY DIRECTOR

C 0000

BROOKHAVEN NATIONAL LAB.-BNLS
5. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99 POINT NO:
TIME COLLECTED. 1338 HRS. LOCATION: 001
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT REMARKS: SPDES
PROJECT NO..... 5964

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
OIL AND GREASE	<5.0	mg/l

OUTFALL 006 it
Grab
Date Sampled 12/10/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Blawie
LABORATORY DIRECTOR
S 0019

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99
TIME COLLECTED. 1528 HRS.
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT
PROJECT NO..... 5964

POINT NO:
LOCATION: 007
REMARKS: SPDES

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
OIL AND GREASE	<5.0	mg/l

OUTFALL 010
Grab
Date Sampled 12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Flavin
LABORATORY DIRECTOR

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99 POINT NO:
TIME COLLECTED. 1125 HRS. LOCATION: 006
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT REMARKS: SPDES
PROJECT NO..... 5964

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
OIL AND GREASE	<5.0	mg/l

OUTFALL 008
Grab
Date Sampled 12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Slavina
LABORATORY DIRECTOR

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5964-006

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: BNLS321
 Matrix: (soil/water) WATER Lab Sample ID: 9937943
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: A25510.D
 Level: (low/med) LOW Date Received: 12/08/99
 % Moisture: not dec. _____ Date Analyzed: 12/16/99
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U ✓
75-15-0	Carbon Disulfide		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
108-05-4	Vinyl acetate		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U ✓
106-46-7	1,4-Dichlorobenzene		1	U ✓
95-50-1	1,2-Dichlorobenzene		1	U

PA
1/1/2000

OUTFALL 008

Grab
Date sampled 12/16/99

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

5561-005

Name: H2M_LABS, INC.

Contract: _____

Lab Code: H2MLAB

Case No.: _____

SAS No.: _____

SDG No.: BNLS304

Matrix (soil/water): WATER

Lab Sample ID: 9930620

Level (low/med): LOW

Date Received: 10/07/99

Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	10.0	B		P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	32.9			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS Clarity After: CLEAR

Artifacts: _____

Comments:

REPORTED 10/21/99

OUTFALL 005

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99
TIME COLLECTED. 1351 HRS.
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT
PROJECT NO..... 5964

POINT NO:
LOCATION: 005
REMARKS: SPDES

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
OIL AND GREASE	<5.0	mg/l

OUTFALL 005
Gran
Date Sampled 12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Flavin
LABORATORY DIRECTOR

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5561-006

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: BNLS304

Matrix: (soil/water) WATER Lab Sample ID: 9930621

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F2348.D

Level: (low/med) LOW Date Received: 10/07/99

% Moisture: not dec. _____ Date Analyzed: 10/19/99

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U
75-15-0	Carbon Disulfide		1	U J
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		3	
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U J
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U J
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

PK

11/4/99

OUTPA11 004

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5561-004

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: BNLS304

Matrix: (soil/water) WATER Lab Sample ID: 9930619

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F2347.D

Level: (low/med) LOW Date Received: 10/07/99

% Moisture: not dec. _____ Date Analyzed: 10/19/99

GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U
75-15-0	Carbon Disulfide		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

BA
11/4/99

OUTFALL 003

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

5561-004

Name: H2M_LABS, INC. _____

Contract: _____

Lab Code: H2MLAB

Case No.: _____

SAS No.: _____

SDG No.: BNLS304

Matrix (soil/water): WATER__

Lab Sample ID: 9930619__

Level (low/med): LOW__

Date Received: 10/07/99_

Solids: _____

Concentration Units (ug/L or mg/kg dry weight):

UG/L__

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.1	B		P
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	13.3	B		P
	Cyanide				NR

Color Before: COLORLESS_

Clarity Before: CLEAR__

Texture: _____

Color After: COLORLESS_

Clarity After: CLEAR__

Artifacts: _____

Comments:

REPORTED_10/21/99_____

OUTFALL 003

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99 POINT NO:
TIME COLLECTED. 1402 HRS. LOCATION: 004
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT REMARKS: SPDES
PROJECT NO..... 5964

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
OIL AND GREASE	<5.0	mg/l

OUTFALL 003
Grabs
Date Sampled 12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Flavin
LABORATORY DIRECTOR

S 0022

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5561-003

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: BNLS304
 Matrix: (soil/water) WATER Lab Sample ID: 9930618
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F2346.D
 Level: (low/med) LOW Date Received: 10/07/99
 % Moisture: not det. _____ Date Analyzed: 10/19/99
 GC Column: RTX-624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U
75-15-0	Carbon Disulfide		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

PK
11/4/99

OUTRAIL 002
 Sample Date: 10/17/99 FORM I VOA
 0.00 114772

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED.. 12/06/99 POINT NO:
TIME COLLECTED.. 1324 HRS. LOCATION: 003
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT REMARKS: SPDES
PROJECT NO..... 5964

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
OIL AND GREASE	<5.0	mg/l

OUTFALL 002M
Grass
Date Sampled 12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Flavin
LABORATORY DIRECTOR

C 0021

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

5570-003

Lab Name: H2M_LABS, INC.

Contract:

Lab Code: H2MLAB

Case No.: SPDES

SAS No.:

SDG No.: ENLS303

Matrix (soil/water): WATER

Lab Sample ID: 9930613

Level (low/med): LOW

Date Received: 10/07/99

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS Clarity After: CLEAR

Artifacts: _____

Comments:

10/26/99

OUTFALL COID Rm 1-F6
Grabs
Sample Date 10/07/99

FORM I - IN

12/95

S 0019

NYSDEC - ASP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

5570-001

Lab Name: H2M_LABS, INC. Contract: _____
 Lab Code: H2MLAB Case No.: SPDES SAS No.: _____ SDG No.: BNLS303
 Matrix (soil/water): WATER Lab Sample ID: 9930612
 Level (low/med): LOW Date Received: 10/07/99

Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-39-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver	58.6			P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

10/26/99

OUTFALL 001D - Rm 1-93a
 Grab
 Sample Date 10/07/99

FORM I - IN

12/95

S 0017

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 10/07/99 POINT NO:
TIME COLLECTED. 1021 HRS. LOCATION: 002
DATE RECEIVED.. 10/07/99
COLLECTED BY... CLIENT REMARKS: SPDES 5570-
PROJECT NO..... 5570

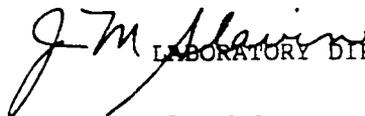
<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
NITRATE-NITRITE (AS N)	0.58	mg/l
TOTAL PHENOLS	<5.0	ug/l
TOTAL KJELDAHL NITROGEN	<0.10	mg/l
TOTAL NITROGEN	0.6	mg/l

OUTFALL 001D Rm 1-86- C41 Processor
Grabs
Sample Date 10/07/99

COPY TO:

DATE ISSUED 10/28/99

ORIGINAL


LABORATORY DIRECTOR
S 0020

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 10/07/99 POINT NO:
TIME COLLECTED. 1012 HRS. LOCATION: 001
DATE RECEIVED.. 10/07/99
COLLECTED BY... CLIENT REMARKS: SPDES 5570-
PROJECT NO..... 5570

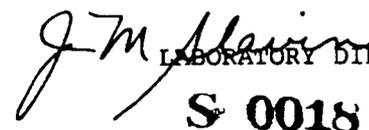
<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
NITRATE-NITRITE (AS N)	0.61	mg/l
TOTAL PHENOLS	<5.0	ug/l
TOTAL KJELDAHL NITROGEN	1.8	mg/l
TOTAL NITROGEN	2.4	mg/l

OUTFALL 001D - Rm 1-93a
Grab
Sample Date 10/07/99

COPIES TO:

DATE ISSUED 10/28/99

ORIGINAL


LABORATORY DIRECTOR
S 0018

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5837-001

Lab Name: H2M LABS INC. Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS308

Matrix: (soil/water) WATER Lab Sample ID: 9932490

Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04032.D

Level: (low/med) LOW Date Received: 10/22/99

% Moisture: _____ decanted:(Y/N) N Date Extracted: 10/25/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/28/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
87865	Pentachlorophenol		25	U
85018	Phenanthrene		10	U
120127	Anthracene		10	U
84742	Di-n-butylphthalate		10	U
206440	Fluoranthene		10	U
92875	Benzidine		80	U
129000	Pyrene		10	U
85687	Butylbenzylphthalate		10	U
56553	Benzo[a]anthracene		10	U
91941	3,3'-Dichlorobenzidine		10	U
218019	Chrysene		10	U
117817	bis(2-Ethylhexyl)phthalate		5	JB
117817	bis(2-Ethylhexyl)phthalate		6	JB
117840	Di-n-octylphthalate		1	J
205992	Benzo[b]fluoranthene		10	U
207089	Benzo[k]fluoranthene		10	U
50328	Benzo[a]pyrene		10	U
193395	Indeno[1,2,3-cd]pyrene		10	U
53703	Dibenz[a,h]anthracene		10	U
191242	Benzo[g,h,i]perylene		10	U

pent
11/4/99

OUT FALL 0013
Grab
Date Sampled 10/21/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5837-001

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS308
 Matrix: (soil/water) WATER Lab Sample ID: 9932490
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04032.D
 Level: (low/med) LOW Date Received: 10/22/99
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 10/25/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/28/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
62759	N-Nitrosodimethylamine	10	U	
108952	Phenol	10	U	
111444	bis(2-Chloroethyl)ether	10	U	
95578	2-Chlorophenol	10	U	
541731	1,3-Dichlorobenzene	10	U	
106467	1,4-Dichlorobenzene	10	U	
95501	1,2-Dichlorobenzene	10	U	
108601	2,2'-oxybis(1-Chloropropane)	10	U	
621647	N-Nitroso-di-n-propylamine	10	U	
67721	Hexachloroethane	10	U	
98953	Nitrobenzene	10	U	
78591	Isophorone	10	U	
88755	2-Nitrophenol	10	U	
105679	2,4-Dimethylphenol	10	U	
111911	bis(2-Chloroethoxy)methane	10	U	
120832	2,4-Dichlorophenol	10	U	
120821	1,2,4-Trichlorobenzene	10	U	
91203	Naphthalene	10	U	
87683	Hexachlorobutadiene	10	U	
59507	4-Chloro-3-methylphenol	10	U	
77474	Hexachlorocyclopentadiene	10	U	
88062	2,4,6-Trichlorophenol	10	U	
91587	2-Chloronaphthalene	10	U	
131113	Dimethylphthalate	10	U	
208968	Acenaphthylene	10	U	
606202	2,6-Dinitrotoluene	10	U	
83329	Acenaphthene	10	U	
51285	2,4-Dinitrophenol	25	U	
100027	4-Nitrophenol	25	U	
121142	2,4-Dinitrotoluene	10	U	
84662	Diethylphthalate	10	U	
86737	Fluorene	10	U	
7005723	4-Chlorophenyl-phenylether	10	U	
534521	4,6-Dinitro-2-methylphenol	25	U	
86306	N-Nitrosodiphenylamine	10	U	
101553	4-Bromophenyl-phenylether	10	U	
118741	Hexachlorobenzene	10	U	

PH 11/2/99

OUTFALL 001B

*Grabs
Date Sampled 10/21/99*

FORM I SV-1

3/90 **S** 0026

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5873-001

Lab Name: H2M LABS, INC Contract: _____
 Lab Code: H2M Case No.: _____ SAS No.: _____ SDG No.: BNLS308
 Matrix: (soil/water) WATER Lab Sample ID: 9932490
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: F2581.D
 Level: (low/med) LOW Date Received: 10/22/99
 % Moisture: not dec. _____ Date Analyzed: 11/03/99
 GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
108-05-4	Vinylacetate		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

PA
11/2/99

OUTFALL 001B
 Grass
 Date Sampled 10/21/99

INORGANIC ANALYSIS DATA SHEET

5837-001

Lab Name: H2M_LABS, INC.

Contract: _____

Lab Code: H2MLAB Case No.: _____

SAS No.: _____

SDG No.: BNLS308

Matrix (soil/water): WATER

Lab Sample ID: 9932490

Level (low/med): LOW

Date Received: 10/22/99

Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	408			P
7440-36-0	Antimony	7.1	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	2.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.49	B		P
7440-70-2	Calcium	320	B		P
7440-47-3	Chromium	52.1			P
7440-48-4	Cobalt	1.6	B		P
7440-50-8	Copper	814			P
7439-89-6	Iron	560			P
7439-92-1	Lead	10.7		J	P
7439-95-4	Magnesium	90.2	B		P
7439-96-5	Manganese	8.2	B		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	25.4	B		P
7440-09-7	Potassium	78.1	B		P
7782-49-2	Selenium	3.7	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	12500			P
7440-28-0	Thallium	7.8	B	J	P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	62.3			P
	Cyanide				NR

PH
11/17/99

Color Before: COLORLESS Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS Clarity After: CLEAR

Artifacts: _____

Comments:
11/9/99

OUTFALL 001B

Grab

Date Sampled 10/21/99

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5607-001RE

Lab Name: H2M LABS INC. Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS305

Matrix: (soil/water) WATER Lab Sample ID: 9930840 RE

Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04027.D

Level: (low/med) LOW Date Received: 10/11/99

% Moisture: _____ decanted:(Y/N) N Date Extracted: 10/20/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/28/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
87865	Pentachlorophenol	25	U ✓
85018	Phenanthrene	10	U
120127	Anthracene	10	U
84742	Di-n-butylphthalate	10	U
206440	Fluoranthene	10	U
92875	Benzidine	10	U
129000	Pyrene	80	U
85687	Butylbenzylphthalate	10	U
56553	Benzo[a]anthracene	10	U
91941	3,3'-Dichlorobenzidine	10	U
218019	Chrysene	10	U
117817	bis(2-Ethylhexyl)phthalate	10	U
117840	Di-n-octylphthalate	10	B
205992	Benzo[b]fluoranthene	10	U
207089	Benzo[k]fluoranthene	10	U
50328	Benzo[a]pyrene	10	U
193395	Indeno[1,2,3-cd]pyrene	10	U
53703	Dibenz[a,h]anthracene	10	U
191242	Benzo[g,h,i]perylene	10	U ✓

pk
11/5/99

OUTFALL 001A
Grab
Date Sampled 10/11/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5607-001RE

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS305
 Matrix: (soil/water) WATER Lab Sample ID: 9930840 RE
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04027.D
 Level: (low/med) LOW Date Received: 10/11/99
 % Moisture: _____ decanted:(Y/N) N Date Extracted: 10/20/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/28/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
62759	N-Nitrosodimethylamine		10	U
108952	Phenol		10	U
111444	bis(2-Chloroethyl)ether		10	U
95578	2-Chlorophenol		10	U
541731	1,3-Dichlorobenzene		10	U
106467	1,4-Dichlorobenzene		10	U
95501	1,2-Dichlorobenzene		10	U
108601	2,2'-oxybis(1-Chloropropane)		10	U
621647	N-Nitroso-di-n-propylamine		10	U
67721	Hexachloroethane		10	U
98953	Nitrobenzene		10	U
78591	Isophorone		10	U
88755	2-Nitrophenol		10	U
105679	2,4-Dimethylphenol		10	U
111911	bis(2-Chloroethoxy)methane		10	U
120832	2,4-Dichlorophenol		10	U
120821	1,2,4-Trichlorobenzene		10	U
91203	Naphthalene		10	U
87683	Hexachlorobutadiene		10	U
59507	4-Chloro-3-methylphenol		10	U
77474	Hexachlorocyclopentadiene		10	U
88062	2,4,6-Trichlorophenol		10	U
91587	2-Chloronaphthalene		10	U
131113	Dimethylphthalate		10	U
208968	Acenaphthylene		10	U
606202	2,6-Dinitrotoluene		10	U
83329	Acenaphthene		10	U
51285	2,4-Dinitrophenol		10	U
100027	4-Nitrophenol		25	U
121142	2,4-Dinitrotoluene		25	U
84662	Diethylphthalate		10	U
86737	Fluorene		2	J
7005723	4-Chlorophenyl-phenylether		10	U
534521	4,6-Dinitro-2-methylphenol		10	U
86306	N-Nitrosodiphenylamine		25	U
101553	4-Bromophenyl-phenylether		10	U
118741	Hexachlorobenzene		10	U

PH
11/5/99

OUTFALL 001A
Grabs
Date Sampled 10/11/99

ATTACHMENT III

BROOKHAVEN NATIONAL LABORATORY

SPDES PERMIT NO. NY0005835

DISCHARGE MONITORING REPORT FOR DECEMBER 1999

ANALYTICAL RESULTS FROM H2M LABS INC.

FOR REGULATORY COMPLIANCE SAMPLES COLLECTED

FROM OUTFALLS 001A, 001B, 001D, 002, 003, 004, 005, 006A, 006B, & 008

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE: MISCELLANEOUS LIQUID
CONTENTS

DATE COLLECTED: 12/08/99 POINT NO:
TIME COLLECTED: 0930 HRS. LOCATION: 133
DATE RECEIVED: 12/08/99
COLLECTED BY: CLIENT REMARKS: STP SPDES ,BATCL + TICS, 624X + TICS
PROJECT NO.: 5963

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
BOD5	135	mg/l
SUSPENDED SOLIDS	512	mg/l

STP Influent
12/8/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Flavin
LABORATORY DIRECTOR
S 0097

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99
TIME COLLECTED. 1449 HRS.
DATE RECEIVED.. 12/06/99
COLLECTED BY... CLIENT
PROJECT NO..... 5961

POINT NO:
LOCATION: 003
REMARKS: STP SPDES 5961-
624X + TICS + KETONES
BATCL + TICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
BOD5	62	mg/l
SUSPENDED SOLIDS	190	mg/l

*STP Influent
12/6/99*

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Slavin
LABORATORY DIRECTOR
S 0095

10
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B61002

Lab Name: H2M LABS, INC. Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: BNLS320

Matrix: (soil/water) WATER Lab Sample ID: 9937514

Sample wt/vol: 1000 (g/mL) mL Lab File ID: SB08818.CDF

% Moisture: _____ decanted: (Y/N) N Date Received: 12/6/99

Extraction: (SepF/Cont/Sonc) CONT Date Extracted: 12/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/17/99

Injection Volume: 0.5 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	ug/L	Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE		0.10	U
72-20-8	Endrin		0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD		0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT		0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone		0.10	U
7421-36-3	Endrin aldehyde		0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
57-74-9	Technical Chlordane		1.0	U
8001-35-2	Toxaphene		5.0	U

OUTFALL 001
Grab
12/6/99

S 0060

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5970-001

Lab Name: H2M LABS INC.

Contract:

Lab Code: 10478

Case No.:

SAS No.:

SDG No.: BNLS320

Matrix: (soil/water) WATER

Lab Sample D: 9938258

Sample wt/vol: 1000 (g/ml) ML

Lab File ID: B04344.D

Level: (low/med) LOW

Date Received: 12/10/99

% Moisture: decanted:(Y/N) N

Date Extracted: 12/13/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/23/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
84662	Diethylphthalate		10	U
86737	Fluorene		10	U
7005723	4-Chlorophenyl-phenylether		10	U
100016	4-Nitroaniline		25	U
534521	4,6-Dinitro-2-methylphenol		25	U
86306	N-Nitrosodiphenylamine		10	U
101553	4-Bromophenyl-phenylether		10	U
118741	Hexachlorobenzene		10	U
37865	Pentachlorophenol		25	U
85018	Phenanthrene		10	U
120127	Anthracene		10	U
86748	Carbazole		10	U
84742	Di-n-butylphthalate		10	U
206440	Fluoranthene		10	U
129000	Pyrene		10	U
85687	Butylbenzylphthalate		10	U
56553	Benzo[a]anthracene		10	U
91941	3,3'-Dichlorobenzidine		10	U
218019	Chrysene		10	U
117817	bis(2-Ethylhexyl)phthalate		1	JB
117840	Di-n-octylphthalate		10	U
205992	Benzo[b]fluoranthene		10	U
207089	Benzo[k]fluoranthene		10	U
50328	Benzo[a]pyrene		10	U
193395	Indeno[1,2,3-cd]pyrene		10	U
53703	Dibenz[a,h]anthracene		10	U
191242	Benzo[g,h,i]perylene		10	U

OUTFALL 001
24 hr Composite
12/10/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5970-001

Lab Name: H2M LABS INC. Contract: _____

Lab Code: 10478 Case No.: _____ SAS No.: _____ SDG No.: BNLS320

Matrix: (soil/water) WATER Lab Sample ID: 9938258

Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04344.D

Level: (low/med) LOW Date Received: 12/10/99

% Moisture: _____ decanted:(Y/N) N Date Extracted: 12/13/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/23/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
108952	Phenol		10	U
111444	bis(2-Chloroethyl)ether		10	U
95578	2-Chlorophenol		10	U
541731	1,3-Dichlorobenzene		10	U
106467	1,4-Dichlorobenzene		10	U
95501	1,2-Dichlorobenzene		10	U
95487	2-Methylphenol		10	U
108601	2,2'-oxybis(1-Chloropropane,		10	U
106445	4-Methylphenol		10	U
621647	N-Nitroso-di-n-propylamine		10	U
67721	Hexachloroethane		10	U
98953	Nitrobenzene		10	U
78591	Isophorone		10	U
88755	2-Nitrophenol		10	U
105679	2,4-Dimethylphenol		10	U
111911	bis(2-Chloroethoxy)methane		10	U
120832	2,4-Dichlorophenol		10	U
120821	1,2,4-Trichlorobenzene		10	U
91203	Naphthalene		10	U
106478	4-Chloroaniline		10	U
87683	Hexachlorobutadiene		10	U
59507	4-Chloro-3-methylphenol		10	U
91576	2-Methylnaphthalene		10	U
77474	Hexachlorocyclopentadiene		10	U
88062	2,4,6-Trichlorophenol		10	U
95954	2,4,5-Trichlorophenol		25	U
91587	2-Chloronaphthalene		10	U
88744	2-Nitroaniline		25	U
131113	Dimethylphthalate		10	U
208968	Acenaphthylene		10	U
606202	2,6-Dinitrotoluene		10	U
99092	3-Nitroaniline		25	U
83329	Acenaphthene		10	U
51285	2,4-Dinitrophenol		25	U
100027	4-Nitrophenol		25	U
132649	Dibenzofuran		10	U
121142	2,4-Dinitrotoluene		10	U

OUTFALL 001
24 hr Composite
12/19/99

FORM I SV-1

3/90
S 0088

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5963-001

Lab Name: H2M LABS INC. Contract:
 Lab Code: 10478 Case No.: SAS No.: SDG No.: BNLS320
 Matrix: (soil/water) WATER Lab Sample ID: 9937898
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04351.D
 Level: (low/med) LOW Date Received: 12/08/99
 % Moisture: decanted:(Y/N) N Date Extracted: 12/13/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/28/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
84662	Diethylphthalate		10	U
86737	Fluorene		10	U
7005723	4-Chlorophenyl-phenylether		10	U
100016	4-Nitroaniline		25	U
534521	4,6-Dinitro-2-methylphenol		25	U
86306	N-Nitrosodiphenylamine		10	U
101553	4-Bromophenyl-phenylether		10	U
118741	Hexachlorobenzene		10	U
87865	Pentachlorophenol		25	U
85018	Phenanthrene		10	U
120127	Anthracene		10	U
86748	Carbazole		10	U
84742	Di-n-butylphthalate		10	U
206440	Fluoranthene		10	U
129000	Pyrene		10	U
85687	Butylbenzylphthalate		10	U
56553	Benzo[a]anthracene		10	U
91941	3,3'-Dichlorobenzidine		10	U
218019	Chrysene		10	U
117817	bis(2-Ethylhexyl)phthalate		6	JB
117840	Di-n-octylphthalate		10	U
205992	Benzo[b]fluoranthene		10	U
207089	Benzo[k]fluoranthene		10	U
50328	Benzo[a]pyrene		10	U
193395	Indeno[1,2,3-cd]pyrene		10	U
53703	Dibenz[a,h]anthracene		10	U
191242	Benzo[g,h,i]perylene		10	U

OUTFALL 001
 24 hr Composite
 12/8/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5963-001

Lab Name: H2M LABS INC. Contract:
 Lab Code: 10478 Case No.: SAS No.: SDG No.: BNLS320
 Matrix: (soil/water) WATER Lab Sample ID: 9937898
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04351.D
 Level: (low/med) LOW Date Received: 12/08/99
 % Moisture: decanted:(Y/N) N Date Extracted: 12/13/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/28/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
108952	Phenol		35	
111444	bis(2-Chloroethyl)ether		10	U
95578	2-Chlorophenol		10	U
541731	1,3-Dichlorobenzene		10	U
106467	1,4-Dichlorobenzene		10	U
95501	1,2-Dichlorobenzene		10	U
95487	2-Methylphenol		10	U
108601	2,2'-oxybis(1-Chloropropane)		10	U
106445	4-Methylphenol		10	U
621647	N-Nitroso-di-n-propylamine		10	U
67721	Hexachloroethane		10	U
98953	Nitrobenzene		10	U
78591	Isophorone		10	U
88755	2-Nitrophenol		10	U
105679	2,4-Dimethylphenol		10	U
111911	bis(2-Chloroethoxy)methane		10	U
120832	2,4-Dichlorophenol		10	U
120821	1,2,4-Trichlorobenzene		10	U
91203	Naphthalene		10	U
106478	4-Chloroaniline		10	U
87683	Hexachlorobutadiene		10	U
59507	4-Chloro-3-methylphenol		10	U
91576	2-Methylnaphthalene		10	U
77474	Hexachlorocyclopentadiene		10	U
88062	2,4,6-Trichlorophenol		10	U
95954	2,4,5-Trichlorophenol		25	U
91587	2-Chloronaphthalene		10	U
88744	2-Nitroaniline		25	U
131113	Dimethylphthalate		10	U
208968	Acenaphthylene		10	U
606202	2,6-Dinitrotoluene		10	U
99092	3-Nitroaniline		25	U
83329	Acenaphthene		10	U
51285	2,4-Dinitrophenol		25	U
100027	4-Nitrophenol		25	U
132649	Dibenzofuran		10	U
121142	2,4-Dinitrotoluene		10	U

OUT FALL 001
24 hr Composite
12/21/99

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5961-001

Lab Name: H2M LABS INC. Contract:
 Lab Code: 10478 Case No.: SAS No.: SDG No.: BNLS320
 Matrix: (soil/water) WATER Lab Sample ID: 9937513
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B04350.D
 Level: (low/med) LOW Date Received: 12/06/99
 % Moisture: decanted:(Y/N) N Date Extracted: 12/13/99
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/28/99
 Injection Volume: 2.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/L	
84662	Diethylphthalate	10		U
86737	Fluorene	10		U
7005723	4-Chlorophenyl-phenylether	10		U
100016	4-Nitroaniline	25		U
534521	4,6-Dinitro-2-methylphenol	25		U
86306	N-Nitrosodiphenylamine	10		U
101553	4-Bromophenyl-phenylether	10		U
118741	Hexachlorobenzene	10		U
87865	Pentachlorophenol	25		U
85018	Phenanthrene	10		U
120127	Anthracene	10		U
86748	Carbazole	10		U
84742	Di-n-butylphthalate	10		U
206440	Fluoranthene	10		U
129000	Pyrene	10		U
85687	Butylbenzylphthalate	10		U
56553	Benzo[a]anthracene	10		U
91941	3,3'-Dichlorobenzidine	10		U
218019	Chrysene	10		U
117817	bis(2-Ethylhexyl)phthalate	5		JB
117840	Di-n-octylphthalate	10		U
205992	Benzo[b]fluoranthene	10		U
207089	Benzo[k]fluoranthene	10		U
50328	Benzo[a]pyrene	10		U
193395	Indeno[1.2.3-cd]pyrene	10		U
53703	Dibenz[a,h]anthracene	10		U
191242	Benzo[g,h,i]perylene	10		U

OUT FALL 001
 24 hr Composite
 12/6/99

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5961-001

Lab Name: H2M LABS INC.

Contract:

Lab Code: 10478

Case No.:

SAS No.:

SDG No.: BNLS320

Matrix: (soil/water) WATER

Lab Sample ID: 9937513

Sample wt/vol: 1000 (g/ml) ML

Lab File ID: B04350.D

Level: (low/med) LOW

Date Received: 12/06/99

% Moisture: decanted:(Y/N) N

Date Extracted: 12/13/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/28/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
108952	Phenol		10	U
111444	bis(2-Chloroethyl)ether		10	U
95578	2-Chlorophenol		10	U
541731	1,3-Dichlorobenzene		10	U
106467	1,4-Dichlorobenzene		10	U
95501	1,2-Dichlorobenzene		10	U
95487	2-Methylphenol		10	U
108601	2,2'-oxybis(1-Chloropropane)		10	U
106445	4-Methylphenol		10	U
621647	N-Nitroso-di-n-propylamine		10	U
67721	Hexachloroethane		10	U
98953	Nitrobenzene		10	U
78591	Isophorone		10	U
88755	2-Nitrophenol		10	U
105679	2,4-Dimethylphenol		10	U
111911	bis(2-Chloroethoxy)methane		10	U
120832	2,4-Dichlorophenol		10	U
120821	1,2,4-Trichlorobenzene		10	U
91203	Naphthalene		10	U
106478	4-Chloroaniline		10	U
87683	Hexachlorobutadiene		10	U
59507	4-Chloro-3-methylphenol		10	U
91576	2-Methylnaphthalene		10	U
77474	Hexachlorocyclopentadiene		10	U
88062	2,4,6-Trichlorophenol		10	U
95954	2,4,5-Trichlorophenol		25	U
91587	2-Chloronaphthalene		10	U
88744	2-Nitroaniline		25	U
131113	Dimethylphthalate		10	U
208968	Acenaphthylene		10	U
606202	2,6-Dinitrotoluene		10	U
99092	3-Nitroaniline		25	U
83329	Acenaphthene		10	U
51285	2,4-Dinitrophenol		25	U
100027	4-Nitrophenol		25	U
132649	Dibenzofuran		10	U
121142	2,4-Dinitrotoluene		10	U

OUTFALL 001
24 hr composite

BROOKHAVEN NATIONAL LAB. -BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

UNIDENTIFIED MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/10/99 POINT NO:
TIME COLLECTED. 1447 HRS. LOCATION: 12
DATE RECEIVED.. 12/10/99
COLLECTED BY... CLIENT REMARKS: STP SPDES
PROJECT NO..... 5970 BATCH - TICS, 624X + TICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
FECAL COLIFORM BACT.		1/100ml

OUTFALL 001
Grab
12/10/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Blawie
LABORATORY DIRECTOR
S 0075

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MICROBIOLOGICAL LIQUID
FOULING

DATE COLLECTED. 12/03/99
TIME COLLECTED. 1500 HRS.
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT
PROJECT NO..... 5963

POINT NO:
LOCATION: 002 & 005 MS/MSD
REMARKS: STP SPDES ,BATCL - FICS, 624X - FICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
FECAL COLIFORM BACT.	4	mpn/100ml

OUT FALL 001
Grab
12/8/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Slavin
LABORATORY DIRECTOR
S 0053

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE:..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED.. 12/06/99
TIME COLLECTED.. 1434 HRS.
DATE RECEIVED.. 12/06/99
COLLECTED BY... CLIENT
PROJECT NO..... 5961

POINT NO:
LOCATION: 102
REMARKS: STP SPDES 5961-
524X + TICS + KETONES
BATCL + TICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
FECAL COLIFORM BACT.	30	mpn/100ml

OUTFALL 001
Grab
12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

JM Alavio
LABORATORY DIRECTOR
S 0063

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5970-002

Lab Name: H2M LABS INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: BNLS320

Matrix: (soil/water) WATER

Lab Sample ID: 9938259

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: A25511.D

Level: (low/med) LOW

Date Received: 12/10/99

% Moisture: not dec.

Date Analyzed: 12/16/99

GC Column: RTX502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U
75-15-0	Carbon Disulfide		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
108-05-4	Vinyl acetate		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

OUT FALL 001

6 grab
12/10/99

FORM I VOA

3/90

S 0070

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5963002+005

Lab Name: H2M LABS INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: BNLS320

Matrix: (soil/water) WATER

Lab Sample ID: 9937899

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: A25507.D

Level: (low/med) LOW

Date Received: 12/08/99

% Moisture: not dec.

Date Analyzed: 12/16/99

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U
75-15-0	Carbon Disulfide		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
108-05-4	Vinyl acetate		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
73-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

OUTFALL 001
Grab
12/18/99

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5961-002

Lab Name: H2M LABS INC.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.: BNLS320

Matrix: (soil/water) WATER

Lab Sample ID: 9937514

Sample wt/vol: 5.0 (g/ml) ML

Lab File ID: A25506.D

Level: (low/med) LOW

Date Received: 12/06/99

% Moisture: not dec.

Date Analyzed: 12/16/99

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
74-83-9	Bromomethane		1	U
75-01-4	Vinyl Chloride		1	U
75-00-3	Chloroethane		1	U
75-09-2	Methylene Chloride		1	U
67-64-1	Acetone		1	U
75-15-0	Carbon Disulfide		1	U
75-35-4	1,1-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
75-694	Trichlorofluoromethane		1	U
108-05-4	Vinyl acetate		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
78-93-3	2-Butanone		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
110-75-8	2-Chloroethylvinylether		1	U
75-27-4	Bromodichloromethane		1	U
78-87-5	1,2-Dichloropropane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
79-01-6	Trichloroethene		1	U
71-43-2	Benzene		1	U
124-48-1	Dibromochloromethane		1	U
10061-02-5	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
75-25-2	Bromoform		1	U
108-10-1	4-Methyl-2-Pentanone		1	U
591-78-6	2-Hexanone		1	U
127-18-4	Tetrachloroethene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-88-3	Toluene		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	Xylene (total)		1	U
541-73-1	1,3-Dichlorobenzene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U

OUT FALL 001
Grab

8970-001

Job Name: HDM_LABS, INC.

DATE: 12/10/99

SDS No.: 0010300

Lab Code: 11478

Case No.: _____

CAS No.: _____

Lab Sample ID: 9938256

Matrix (soil/water): WATER

Date Received: 12/10/99

Level (low/med): LOW

Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	1	2	M
7429-90-5	Aluminum	16.0	B		B
7440-16-0	Antimony	0.0	B		B
7440-38-2	Arsenic	0.0	B		B
7440-39-1	Barium	22.7	B		B
7440-41-7	Beryllium	0.00	B		B
7440-43-9	Cadmium	0.00	B		B
7440-70-2	Calcium	10100	B		B
7440-47-3	Chromium	0.0	B		B
7440-48-4	Cobalt	0.0	B		B
7440-50-8	Copper	0.0	B		B
7439-89-0	Iron	0.0	B		B
7439-92-1	Lead	0.0	B		B
7439-95-4	Magnesium	13.0	B		B
7439-96-5	Manganese	0.0	B		B
7439-97-6	Mercury	0.0	B		B
7440-02-0	Nickel	0.0	B		B
7440-09-7	Potassium	10.0	B	E	B
7782-49-2	Selenium	0.0	B		B
7440-12-4	Silver	0.0	B		B
7440-19-9	Sodium	0.0	B		B
7440-23-1	Strontium	0.0	B		B
7440-22-3	Tungsten	0.0	B		B
7440-50-8	Zinc	0.0	B		B
	Cyanide				NR

Color Before: COLORLESS. Clarity before: CLEAR. Texture: _____

Color After: COLORLESS. Clarity after: CLEAR. Artifacts: _____

Comments: REPORTED 1.5.00

OUTFALL 001
24 hr Composite
12/10/99

FORM 1 - EN
 1
 STATE WATER CONTROL BOARD

WATER SAMPLE

12-18-99

Lab Name: H2M LABS, INC. _____
 Lab Code: 11175 _____
 Matrix (soil/water): WATER _____
 Level (low/med.): LOW _____
 Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	D	U	M
7429-90-5	Aluminum	89.2	B		
7440-36-0	Antimony	3.2	U		
7440-38-2	Arsenic	1.3	U		
7440-39-3	Barium	15.9	B		
7440-41-7	Beryllium	0.20	U		
7440-43-9	Cadmium	0.30	U		
7440-70-2	Calcium	8810			
7440-47-3	Chromium	0.89	B		
7440-48-4	Cobalt	1.1	U		
7440-50-8	Copper	18.3			
7439-89-6	Iron	11			
7439-92-1	Lead	1.1	B		
7439-95-4	Magnesium	114	B		
7439-96-5	Manganese	0.6	B		
7439-97-6	Mercury	0.11	B		CV
7440-02-0	Nickel	0.1	B		
7440-09-7	Potassium	1130	B		
7782-49-2	Selenium	1.7	U		
7440-32-4	Silver	1.2	B		
7440-23-5	Sodium	1110			
7440-35-3	Thallium	1.1	B		
7440-62-2	Vanadium	1.1	U		
7440-66-6	Zinc	11.7			
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:
 REPORTED 1/5/00

OUTFALL 001
 24 hr Composite
 12/18/99

WYOMING - 1995
 WYOMING ANALYSIS DATA SHEET

EPA SAMPLE NO. _____

3961-001

Lab Name: R2M LABS, INC. _____

Contract: _____

Lab Code: 10478

Case No.: _____

SAS No.: _____

SDG No.: ENLS10

Matrix (soil/water): WATER

Lab Sample ID: 9937513

Level (low/med): LOW

Date Received: 12/06/99

Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C1	2	M
7429-90-5	Aluminum	73.6	B		B
7440-38-2	Antimony	3.2	U		B
7440-39-2	Arsenic	1.8	B		B
7440-39-3	Barium	19.0	B		B
7440-41-7	Beryllium	1.4	B		B
7440-43-9	Cadmium	1.6	B		B
7440-70-2	Calcium	9260			B
7440-47-3	Chromium	2.4	B		B
7440-48-4	Cobalt	2.0	B		B
7440-50-8	Copper	36.0			B
7439-89-6	Iron	187		B	B
7439-92-1	Lead	1.8	B		B
7439-95-4	Magnesium	3210	B		B
7439-96-5	Manganese	4.8	B		B
7439-97-6	Mercury	0.10	B		CV
7440-02-0	Nickel	5.8	B		B
7440-09-7	Potassium	1450	B	B	B
7782-49-2	Selenium	1.7	B		B
7440-22-4	Silver	0.5	B		B
7440-23-5	Sodium	30600			B
7440-28-0	Thallium	3.1	B		B
7440-62-2	Vanadium	6.1	B		B
7440-66-6	Zinc	12.5			B
	Cyanide				Na

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

REPORTED 1/5/00

OUTFALL 001
 24 hr Composite
 12/6/99

WIA PROJECT IDENTIFICATION NO.

WIA #

Site Name: HSM_LAB3, WPA

Latitude: _____

Code: 1047a

Use No.: _____

Site No.: _____

SDG No.: BNL8101

Matrix (soil/water): WATER

Lab Sample ID: 3938259

Vel (low/med): LOW

Date Received: 12/10/99

Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____ MG/L

CAS No.	Analyte	Concentration	U	S	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-8	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-09-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-68-6	Zinc				NR
	Cyanide				NR

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

REPORTED 1/5/00

OUT FALL 001

Grabs

12/10/99

WATER ANALYSIS
 ENVIRONMENTAL ANALYSIS SYSTEMS, INC.

WATER ANALYSIS

Lab Name: H2M LABS, INC. Contract: _____
 Job Code: 10478 Sample No.: _____ CAS No.: _____ SDG No.: ENL5530
 Matrix (soil/water): WATER Lab Sample ID: 9937699
 Level (low/med): LOW Date Received: 12/08/99
 Solids: _____

Concentration Units: µg/L or mg/kg dry weight µG/L

CAS No.	Analyte	Concentration	U	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-8	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-1	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-8	Sodium				NR
7440-28-0	Thallium				NR
7440-62-0	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				CA

Color Before: _____ Clarity Before: _____ Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____

Comments: REPORTED 1/5/00

OUTFALL 001
 Grab
 12/8/99

FORM 1 - IN
INORGANIC ANALYTICAL DATA SHEET

VIA SAMPLE NO. _____

1361-102

Name: HEM LABS, INC. _____

Contact: _____

Code: 1470 _____

Lab No.: _____

GAS No.: _____

SDG No.: ENL3320

Strik Soil/Water: WATER _____

Lab Sample ID: 9937514 _____

Per. Flowrate: GPM _____

Date Received: 12/06/99 _____

Solids: _____

Concentration Units (ug/L or mg/kg dry weight): _____

UG/L _____

GAS No.	Analyte	Concentration	1	2	M
7420-30-8	Aluminum				NR
7440-36-0	Antimony				NR
7440-39-0	Arsenic				NR
7440-39-0	Barium				NR
7440-41-0	Beryllium				NR
7440-43-0	Cadmium				NR
7440-70-0	Calcium				NR
7440-47-0	Chromium				NR
7440-48-0	Cobalt				NR
7440-50-0	Copper				NR
7440-51-0	Iron				NR
7439-92-0	Lead				NR
7439-98-4	Magnesium				NR
7439-96-1	Manganese				NR
7439-97-0	Mercury				NR
7440-02-0	Nickel				NR
7440-03-0	Potassium				NR
7440-04-0	Selenium				NR
7440-05-0	Silver				NR
7440-06-0	Sodium				NR
7440-07-0	Strontium				NR
7440-08-0	Tantalum				NR
7440-09-0	Tin				NR
7440-10-0	Zinc				NR
7440-11-0	Zirconium				NR

Color Before: _____ Turbidity Before: _____

Texture: _____

Color After: _____ Turbidity After: _____

Artifacts: _____

Comments:

REPORTED 1 5:00 _____

OUTFALL 001

FORM 1 - IN

12/95

Grab
12/16/99

S 0032

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/10/99 POINT NO:
TIME COLLECTED. 0930 HRS. LOCATION: 101
DATE RECEIVED.. 12/10/99
COLLECTED BY... CLIENT REMARKS: STP SPDES
PROJECT NO..... 5970 BATCL + TICS, 624X + TICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
BOD5	42	mg/l
AMMONIA (AS N)	1.3	mg/l
NITRITE (AS N)	0.15	mg/l
NITRATE (AS N)	6.2	mg/l
ORTHO PHOS.(AS P)	0.06	mg/l
SUSPENDED SOLIDS	4	mg/l
TOTAL KJELDAHL NITROGEN	1.7	mg/l
TOTAL PHOS. (AS P)	1.3	mg/l

OUTFALL 001
24 hr Composite
12/10/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Alvin
LABORATORY DIRECTOR
S 0093

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

MISCELLANEOUS
ROUTINE

DATE COLLECTED. 12/08/99
TIME COLLECTED. 0920 HRS.
DATE RECEIVED.. 12/08/99
COLLECTED BY... CLIENT
PROJECT NO..... 5963

POINT NO:
LOCATION: 101 & 904 MS/MSD
REMARKS: STP SPDES ,BATCL + TICS, 624X + TICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
BOD5	<2	mg/l
AMMONIA (AS N)	<0.05	mg/l
NITRITE (AS N)	<0.01	mg/l
NITRATE (AS N)	6.6	mg/l
ORTHO PHOS.(AS P)	1.0	mg/l
SUSPENDED SOLIDS	<10	mg/l
TOTAL KJELDAHL NITROGEN	0.20	mg/l
TOTAL PHOS. (AS P)	1.1	mg/l

OUTFALL 001
24 hr Composite
12/8/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

JM Flavin
LABORATORY DIRECTOR
S 0087

BROOKHAVEN NATIONAL LAB.-BNLS
S. SCARPITTA
70 BELL AVE.
UPTON, NY 11793

TYPE..... MISCELLANEOUS LIQUID
ROUTINE

DATE COLLECTED. 12/06/99
TIME COLLECTED. 1425 HRS.
DATE RECEIVED.. 12/06/99
COLLECTED BY... CLIENT
PROJECT NO..... 5961

POINT NO:
LOCATION: 001
REMARKS: STP SPDES 5961-
624X + TICS + KETONES
BATCL + TICS

<u>PARAMETER (S)</u>	<u>RESULTS</u>	<u>UNITS</u>
BOD5	3	mg/l
AMMONIA (AS N)	0.65	mg/l
NITRITE (AS N)	0.17	mg/l
NITRATE (AS N)	4.0	mg/l
ORTHO PHOS.(AS P)	1.1	mg/l
SUSPENDED SOLIDS	<10	mg/l
TOTAL KJELDAHL NITROGEN	1.0	mg/l
TOTAL PHOS. (AS P)	1.1	mg/l

OUTFALL 001
24 hr Composite
12/6/99

COPIES TO:

DATE ISSUED 01/04/00

ORIGINAL

J. M. Slavicek
LABORATORY DIRECTOR

S 0031